UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER FOR PATENTS P.O. Box 1450

P O Box 1450 Alexandria, Virgima 22313-1450

### NOTICE OF ALLOWANCE AND FEE(S) DUE

38834 7590 12/22/2008 WESTERMAN, HATTORI, DANIELS & ADRIAN, LLP 1250 CONNECTICUT AVENUE, NW SUITE 700 EXAMINER

DOWLING, WILLIAM C

ART UNIT PAPER NUMBER

2851

DATE MAILED: 12/22/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/550,886	09/27/2005	Takashi Ikeda	053178	1741

TITLE OF INVENTION: LIGHT MIXING MEMBER, MULTIPE-LAMP LIGHTING EQUIPMENT AND PROJECTION VIDEO DISPLAY

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/23/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

WASHINGTON DC 20036

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

appropriate. All further indicated unless corrects maintenance fee notifica	correspondence includir ed below or directed oth tions	ng the Patent, advance of nerwise in Block 1, by (	orders and notification (a) specifying a new co	of m	naintenance fees w pondence address;	vill be and/or	mailed to the current (b) indicating a sepa	correspondence rate "FEE AD	e address as DRESS" for
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block I for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.					
38834 7590 12/22/2008				nave			-		
1250 CONNEC SUITE 700	FICUT AVENUE, 1	NIELS & ADRIA NW	AN, LLP	I her State addre trans	eby certify that thes Postal Service weekend to the Mail	is Fee( th sul Stop TO (57	of Mailing or Trans s) Transmittal is being ficient postage for firs ISSUE FEE address I) 273-2885, on the d	deposited with t class mail in above, or bein ate indicated be	the United an envelope ig facsimile low.
WASHINGTON	N, DC 20036							(De	positor's name)
									(Signature)
									(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR			ATTORNEY DOCKET NO. CONFIRMA		CONFIRMAT	ION NO.
10/550,886	09/27/2005	•	Takashi Ikeda				053178	1741	
TITLE OF INVENTION	: LIGHT MIXING MEN	IBER, MULTIPE-LAM	P LIGHTING EQUIPM	MEN	T AND PROJECT	ION V	IDEO DISPLAY		
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	UE	PREV. PAID ISSUE	S FEE	TOTAL FEE(S) DUE	DATE	DUE
nonprovisional	NO	\$1510	\$300		\$0		\$1810	03/23/	/2009
EXAM	IINER	ART UNIT	CLASS-SUBCLASS	s					
DOWLING,	WILLIAM C	285I	353-094000	_					
1. Change of correspond CFR 1.363).	ence address or indicatio	n of "Fee Address" (37	2. For printing on t						
	ondence address (or Cha B/122) attached.		(I) the names of u or agents OR, alter	ip to nativ	3 registered paten ely,	t attori	ieys <sup>1</sup>		
			(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to						
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			2 registered autorney or agent) and the names of up to 2 registered patent autorneys or agents. If no name is listed, no name will be printed.						
3. ASSIGNEE NAME A									
PLEASE NOTE: Uni recordation as set fort	less an assignee is ident h in 37 CFR 3.11. Come	ified below, no assignee pletion of this form is NO	data will appear on the	he pa ≀an a	itent. If an assign	ee is io	lentified below, the de	cument has be	en filed for
(A) NAME OF ASSI			(B) RESIDENCE: (C						
Please check the appropr	data assignas antonomi or	catagories (mill not be	winted on the natent) .	П	Tadioidad DLC		on or other private gro		Corroran
						•		• •	Jovernment
4a. The following fee(s)  Issue Fee	are submitted:	4	b. Payment of Fee(s): ( A check is enclos		se first reapply ar	ıy prev	lously paid issue fee	shown above)	
	vo small entity discount	permitted)	Payment by credi		i. Form PTO-2038	is atta	ched.		
Advance Order -			The Director is he	reby		ge the	required fee(s), any de	ficiency, or cree n extra copy of	dit any
5. Change in Entity Sta	tus (from status indicate	d above)	overpayment, to 1	лерог	Sit Account Number		(enclose a	rextra copy or	uns roum).
a. Applicant claim	s SMALL ENTITY state	is. See 37 CFR 1.27.					ITTY status. See 37 Cl		
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accepte tes Patent and Trademan	ed from anyone other th k Office.	an th	ne applicant; a regi	stered.	attorney or agent; or th	e assignee or o	ther party in
Authorized Signature					Date				_
Typed or printed name			Registration No.						
This collection of inform an application. Confiden submitting the complete this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	nation is required by 37 C tiality is governed by 35 d application form to the ions for reducing this but 'irginia 22313-1450. DC k13-1450.	FR 1.311. The informati U.S.C. 122 and 37 CFR USPTO. Time will var rden, should be sent to the O NOT SEND FEES OR	on is required to obtain 1.14. This collection i y depending upon the i he Chief Information O COMPLETED FORM	or re s esti indivi ffice S TC	etain a benefit by t imated to take 12 i idual case. Any co r, U.S. Patent and D THIS ADDRESS	he pub minutes mmen Trader i. SEN	ic which is to file (and to complete, includin s on the amount of tin ark Office, U.S. Dep D TO: Commissioner	by the USPTC g gathering, pro ne you require utment of Com for Patents, P.O	to process) eparing, and to complete imerce, P.O. J. Box 1450,

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



# UNITED STATES PATENT AND TRADEMARK OFFICE

#### UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

P O Box 1450 Alexandria, Virgima 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/550,886	09/27/2005 Takashi Ikeda		053178	1741		
38834 7.	590 12/22/2008		EXAM	UNER		
WESTERMAN, HATTORI, DANIELS & ADRIAN, LLP			DOWLING, WILLIAM C			
	CUT AVENUE, NW		ART UNIT	PAPER NUMBER		
SUITE 700 WASHINGTON, DC 20036			2851 DATE MAILED: 12/22/2008			

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 555 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 555 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

# Notice of Allowability

Application No.	Applicant(s)			
10/550,886	IKEDA ET AL.			
Examiner	Art Unit			
William C. Dowling	2851			

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address-All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1331 and MPEP 1308.

- This communication is responsive to Amendment received 9/8/08.
- 2. The allowed claim(s) is/are 11 and 15-21.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) 

    All b) 

    Some\* c) 

    None of the:
    - 1. 

      Certified copies of the priority documents have been received.
    - 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_
      - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
  - \* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDOMMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 5. CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) Thereto or 2) to Paper No./Mail Date
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2. 
  Notice of Draftperson's Patent Drawing Review (PTO-948)
- Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date
- Tager No.//wair Date
   Tager No.//wair
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date .
- 7. 

  Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance

Application/Control Number: 10/550,886

Art Unit: 2851

# DETAILED ACTION

# Allowable Subject Matter

Claims 11, 15-21 are allowed.

The following is an examiner's statement of reasons for allowance: The prior art of record fails to teach or A multiple-light type illuminating device, comprising: a first light source and a second light source for emitting approximately collimated light; a light mixing member having a plurality of optical members;

said plurality of optical members each having a first optical element and a second optical element;

said first optical element guides-light emitted from the first light source in a specific direction and said second optical element guides light emitted from the second light source in a direction parallel to the specific direction;

said plurality of optical members each having a pitch formed of the first optical element and the second optical element;

a pair of fly's eye lenses provided on light-exit side of the light mixing member; and said pitch of the plurality of optical members have variations so that light fluxes of respectively different patterns are incident on each lens portions of a light-incidence side fly's

eye lens in the pair of fly's eye lenses.

Application/Control Number: 10/550,886

Art Unit: 2851

The prior art of record fails to teach or suggest A method of arranging a light mixing member having a shape in which first optical elements that guide light received from a first direction in a specific direction and second optical elements that guide light received from a second direction in a direction parallel to the specific direction are arranged alternately, comprising: dividing the light mixing member into at least two areas by a line perpendicular to join lines of the first optical elements and the second optical elements

and deviating the join lines in a certain area out of the divided areas from the join lines in a different area out of the divided areas, so that the join lines in the certain area and the join lines in the different area are not aligned in a straight line.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William C. Dowling whose telephone number is 571-272-2116. The examiner can normally be reached on MON-THURS.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Diane Lee can be reached on 571-272-2399. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/550,886 Page 4

Art Unit: 2851

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/William C. Dowling/ Primary Examiner, Art Unit 2851

wcd